

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An apparatus for delivering a predetermined amount of a fluid for biological or chemical processing and/or analysis, consisting of:

a tube;

a piston plunger positioned to slide inside of said tube for dispensing said predetermined amount of a fluid for biological or chemical processing and/or analysis, said piston plunger responsive to a pneumatic force;

a mechanical device that biases said piston plunger in opposition to said pneumatic force; ~~and~~

a connector operatively connected to said tube for transferring said predetermined amount of a fluid for biological or chemical processing and/or analysis;

a chamber directly connected to said tube and open to said piston plunger for directing said pneumatic force directly to said piston plunger, and

an actuator operatively connected to said chamber, said tube and piston plunger for providing said pneumatic force to said piston plunger;

wherein said actuator ~~includes~~ has valving operatively connected to said chamber and said tube and operatively connected to said piston plunger, said valving transmitting said pneumatic force to said chamber, said tube and piston plunger.

2. (Previously Presented) The apparatus of claim 1 wherein said mechanical device is a spring that biases said piston plunger in opposition to said pneumatic force.

3. (Cancelled)

4. (Currently Amended) A dispensing system for delivering a predetermined amount of a fluid for biological or chemical processing and/or analysis, consisting of:

dispensing means for moving said predetermined amount of a fluid for biological or chemical processing and/or analysis, said dispensing means operated by a pneumatic force;

connection means for delivering said predetermined amount of a fluid for biological or chemical processing and/or analysis, said connection means operatively connected to said dispensing means; and

actuator means for providing said pneumatic force to said dispensing means, said actuator means operatively connected to said dispensing means;

chamber means directly connected to said dispensing means and open to said actuator means for directing said pneumatic force to said actuator means,  
and

wherein said actuator ~~includes~~ has valving means for transmitting said pneumatic force to said chamber means and said dispensing means, said valving means operatively connected to said chamber means and said dispensing means.

5. (Original) The dispensing system of claim 4 wherein said dispensing means comprises a tube and a piston plunger inside of said tube that slides inside said tube and moves said predetermined amount of a fluid for biological or chemical processing and/or analysis through said connector.

6. (Original) The pneumatic dispensing system of claim 4 wherein said dispensing means includes a spring that biases said piston plunger in opposition to said pneumatic force.

7. (Cancelled)